S.No: 17	Exp. Name: ***Write a C program to calculate the series 1 + 2 + 3 + 4 + ... + n***	Date:2023-01-10

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Aim:

Write a **C** program to calculate the series `1 + 2 + 3 + 4 + ..... + n`.

Sample Input and Output:

```
Enter n value : 10
Sum of 10 natural numbers : 55
```

Source Code:

series1.c

```
#include<stdio.h>
void main()
{
   int n,i=1,sum=0;
   printf("Enter n value : ");
   scanf("%d",&n);
   while(i<=n)
   {
      sum=sum+i;
      i++;
   }
   printf("Sum of %d natural numbers : %d\n",n,sum);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter n value : 10
Sum of 10 natural numbers : 55

Test Case - 2
User Output
Enter n value : 14
Sum of 14 natural numbers : 105

Test Case - 3
User Output
Enter n value : 11
Sum of 11 natural numbers : 66

Test Case - 4
User Output
Enter n value : 8
Sum of 8 natural numbers : 36

Test Case - 5
User Output
Enter n value : 99
Sum of 99 natural numbers : 4950

Test Case - 6
User Output
Enter n value : 67
Sum of 67 natural numbers : 2278